

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE

INVENTOR'S NAME: David J. Grainger, et al.

SERIAL NO.: 09/150,813 DOCKET NO.: 1543.002US1

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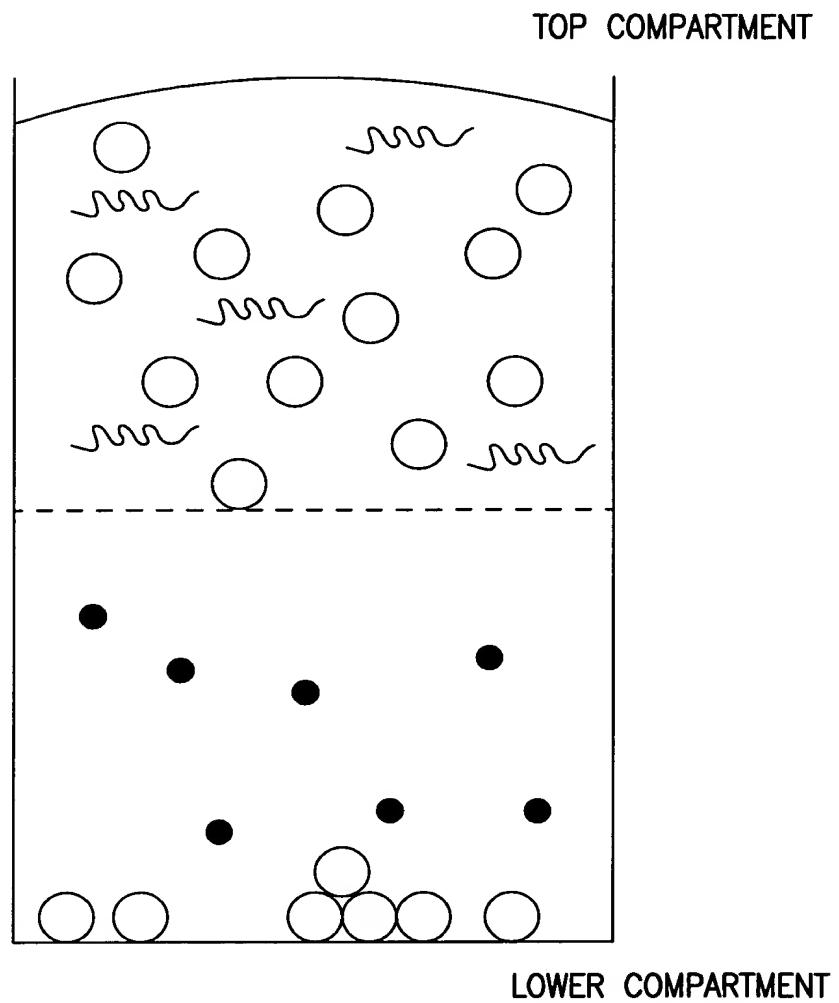


FIG. 1

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE  
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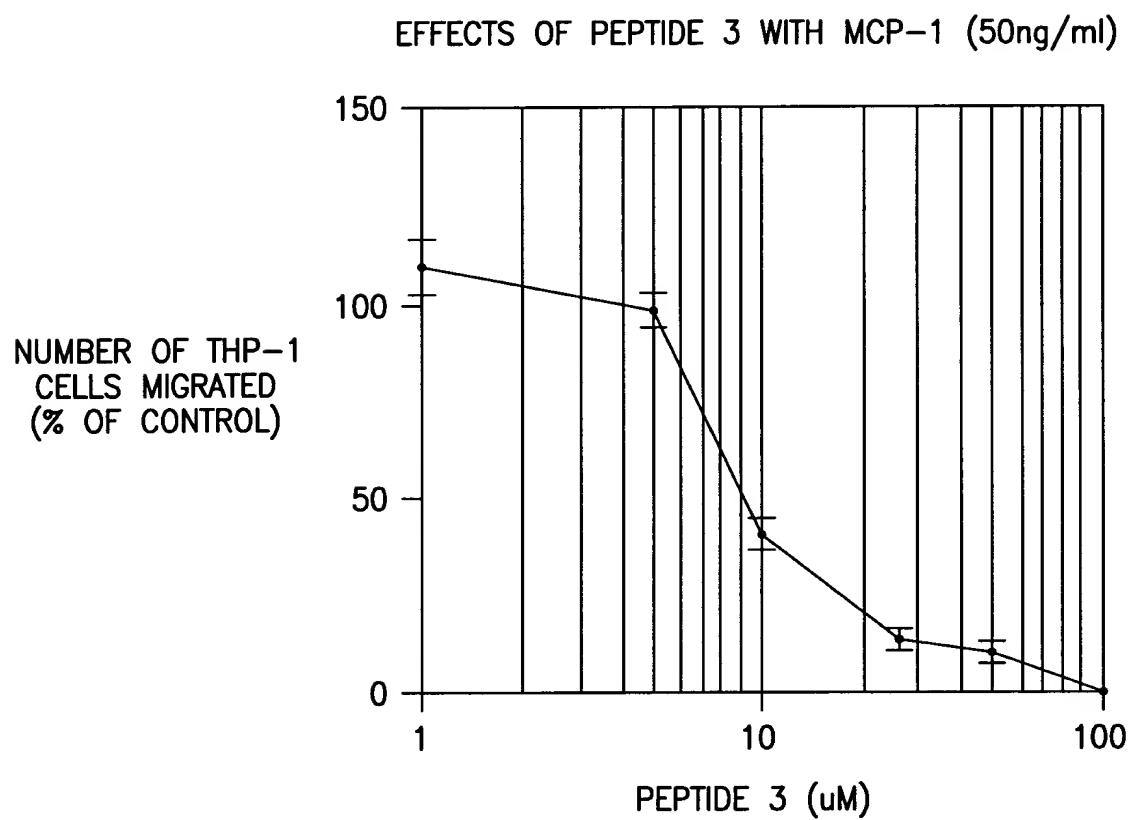


FIG. 2

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE

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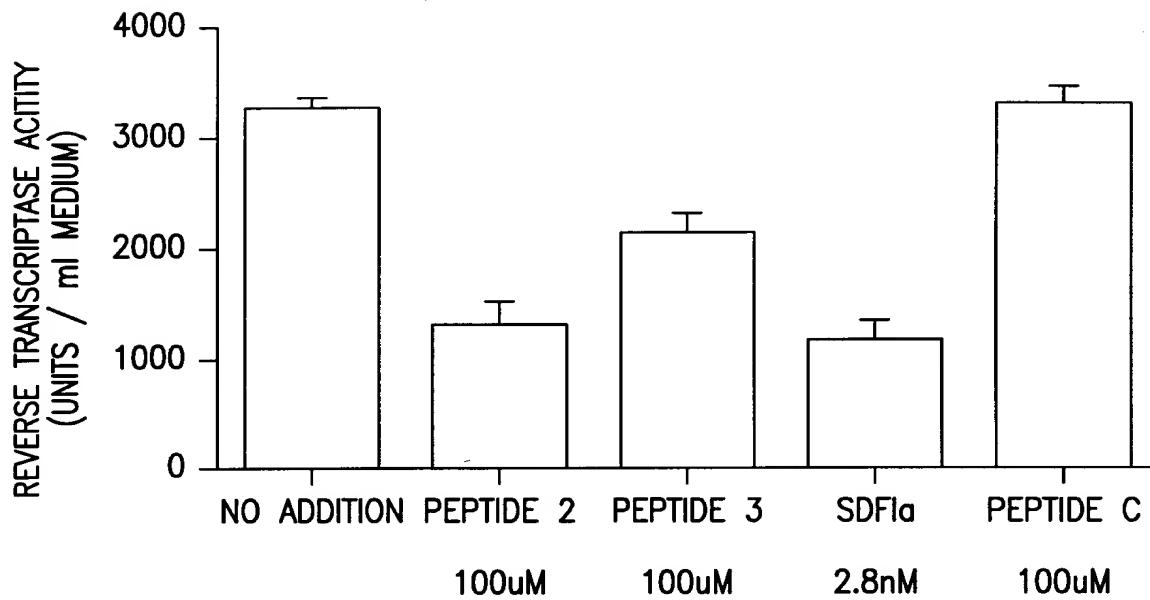


FIG. 3

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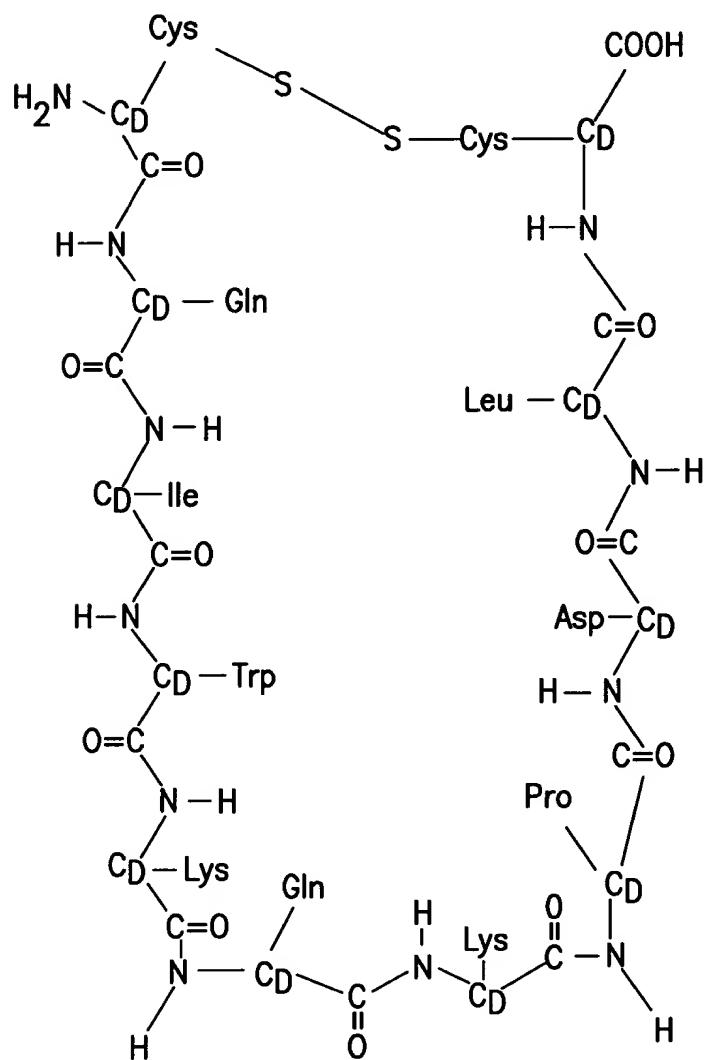


FIG. 4

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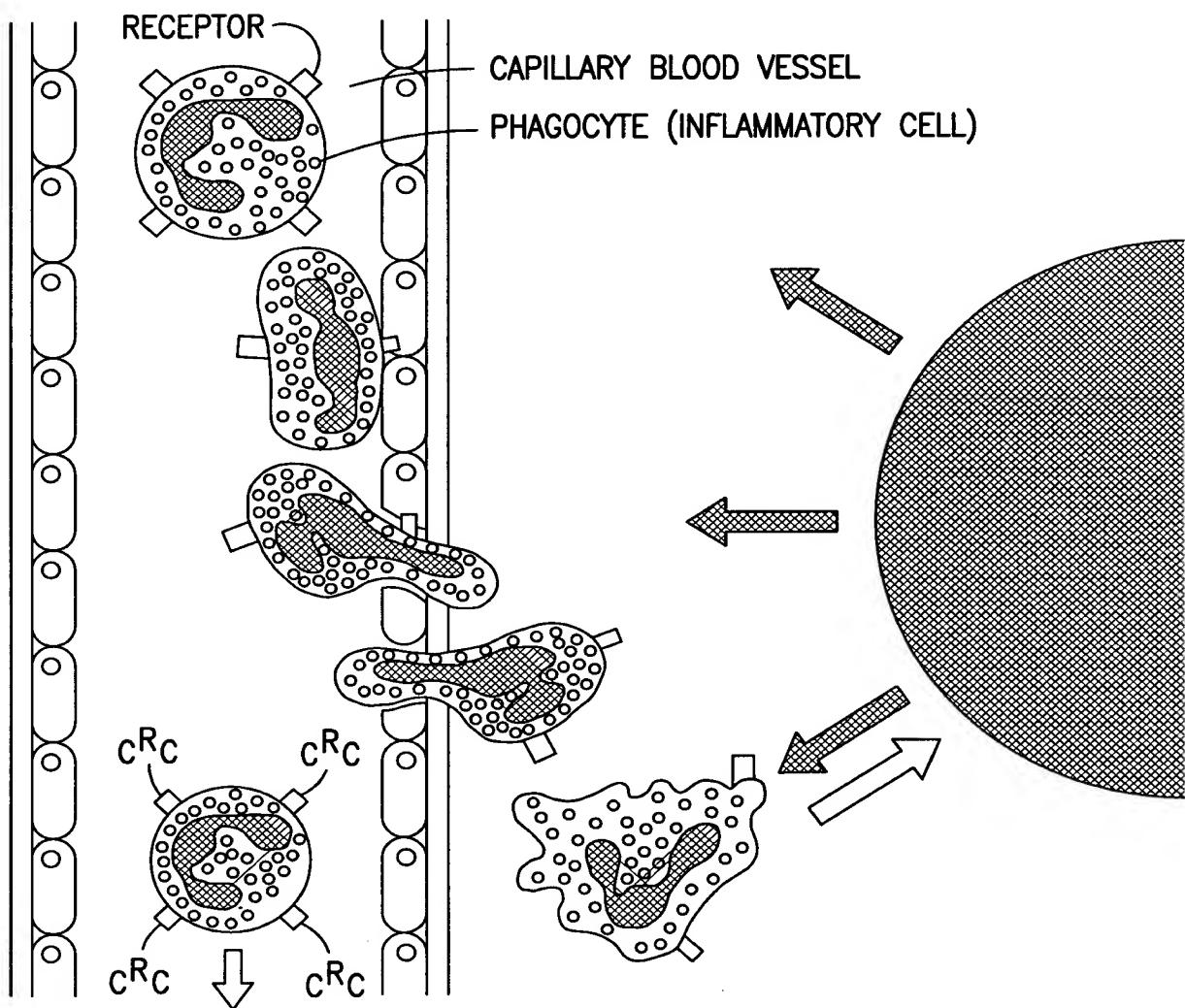


FIG. 5

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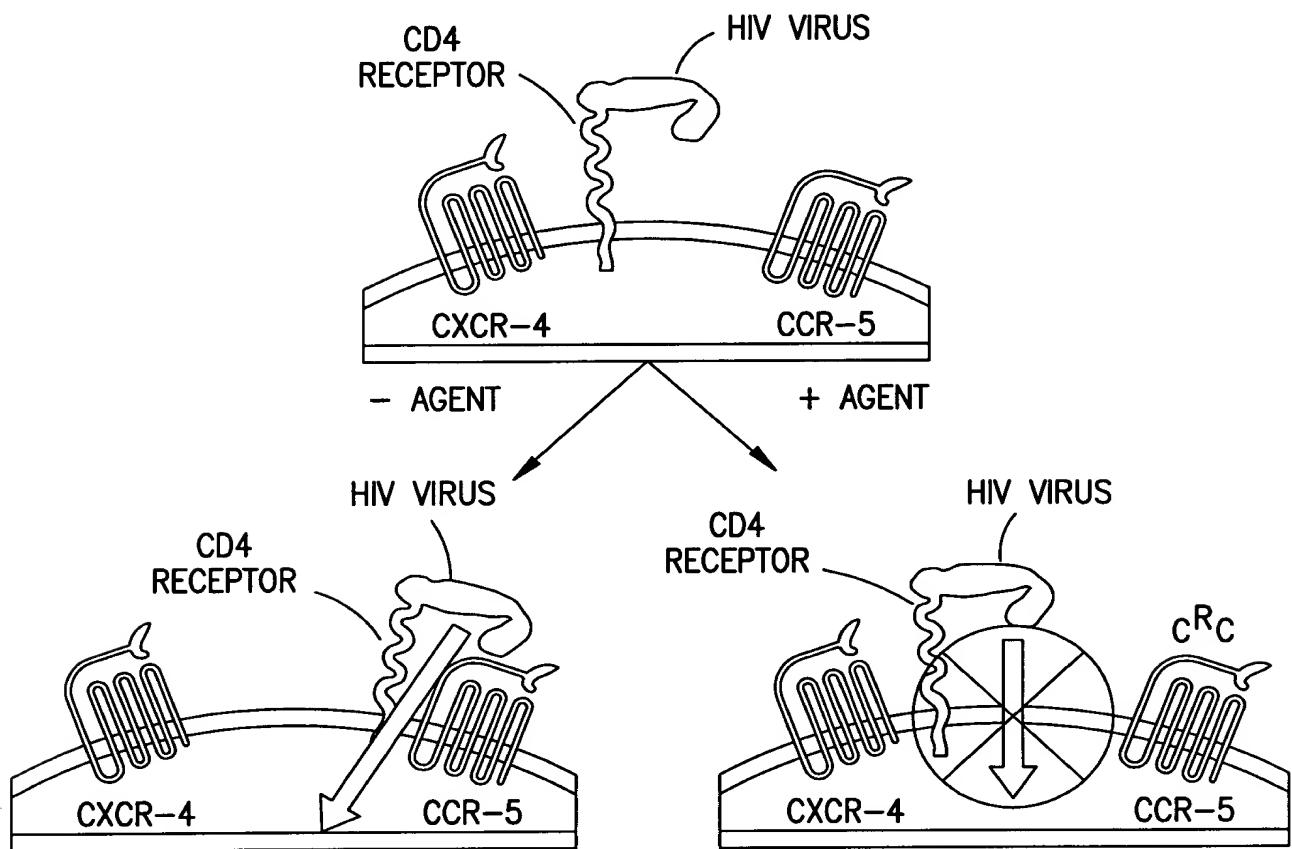


FIG. 6

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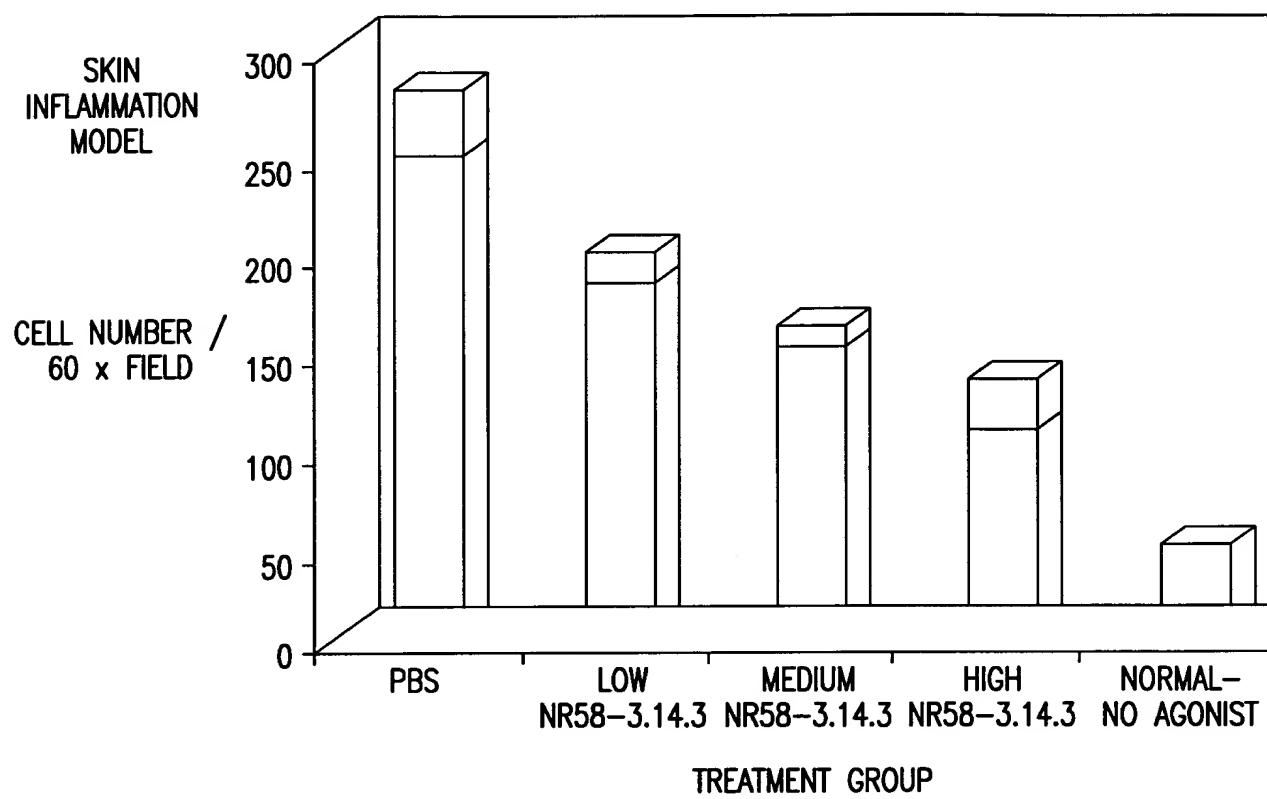


FIG. 7A

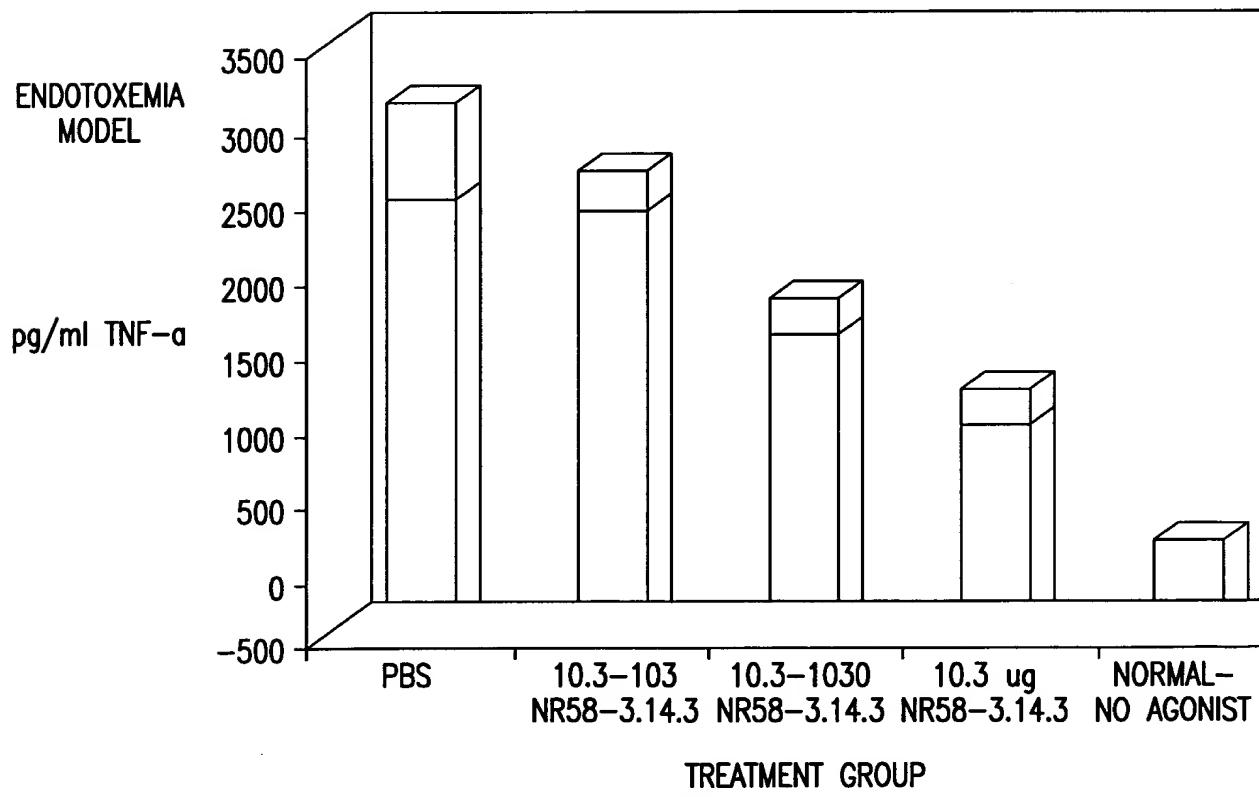


FIG. 7B

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE  
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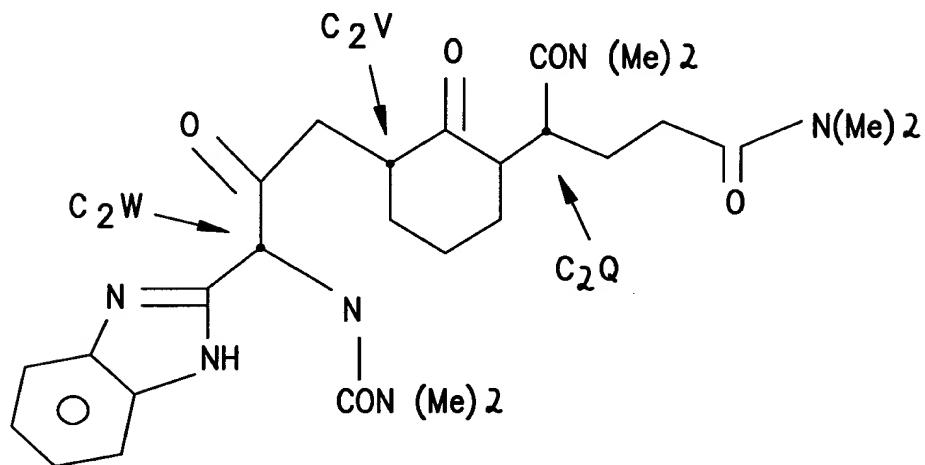


FIG. 8

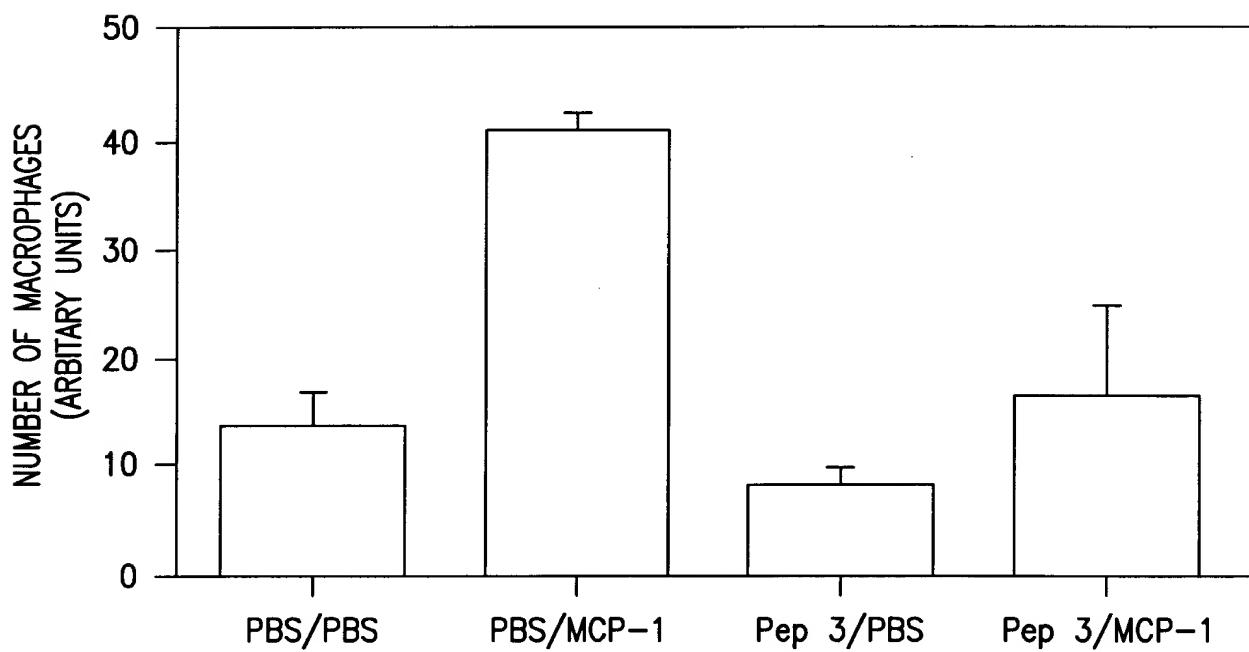


FIG. 9

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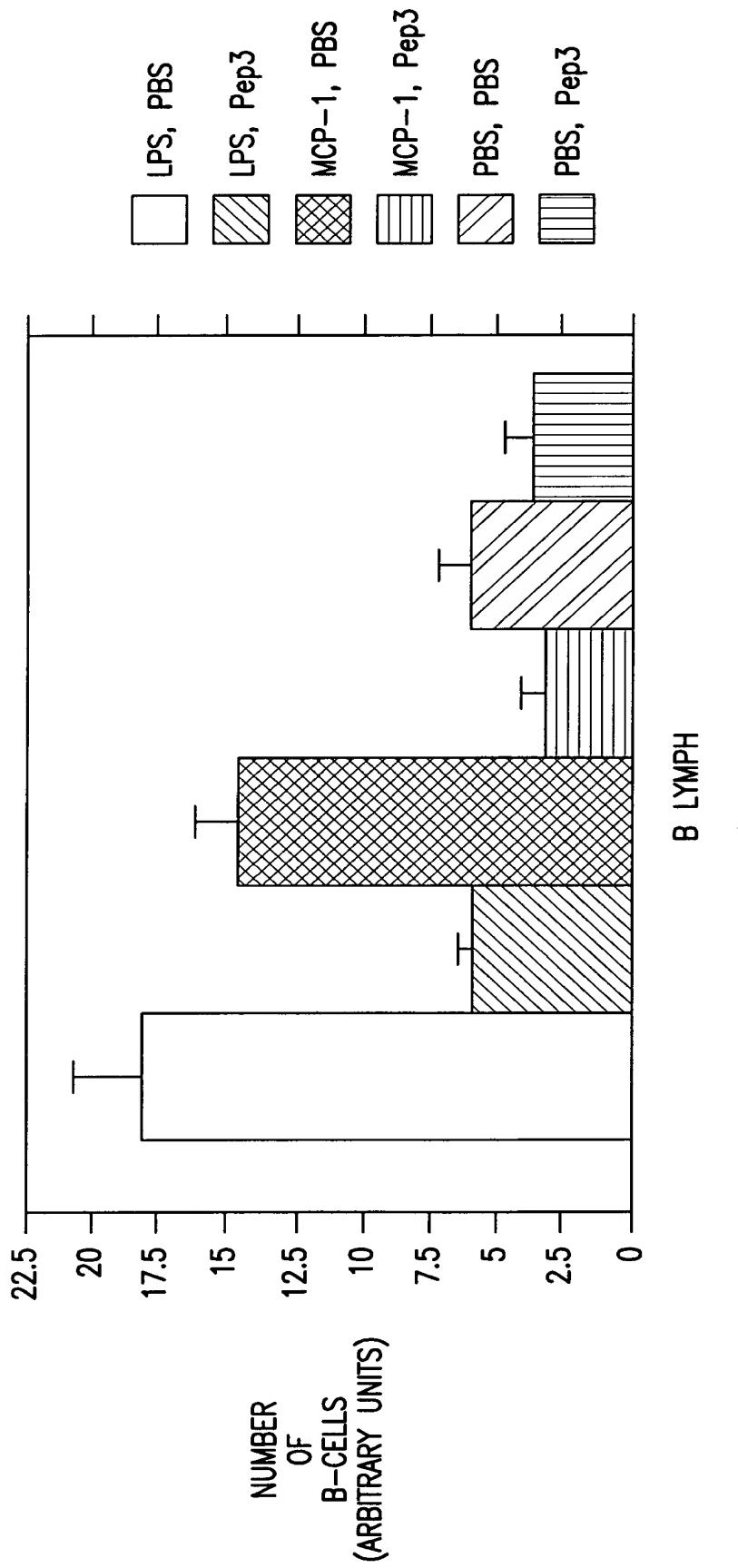


FIG. 10

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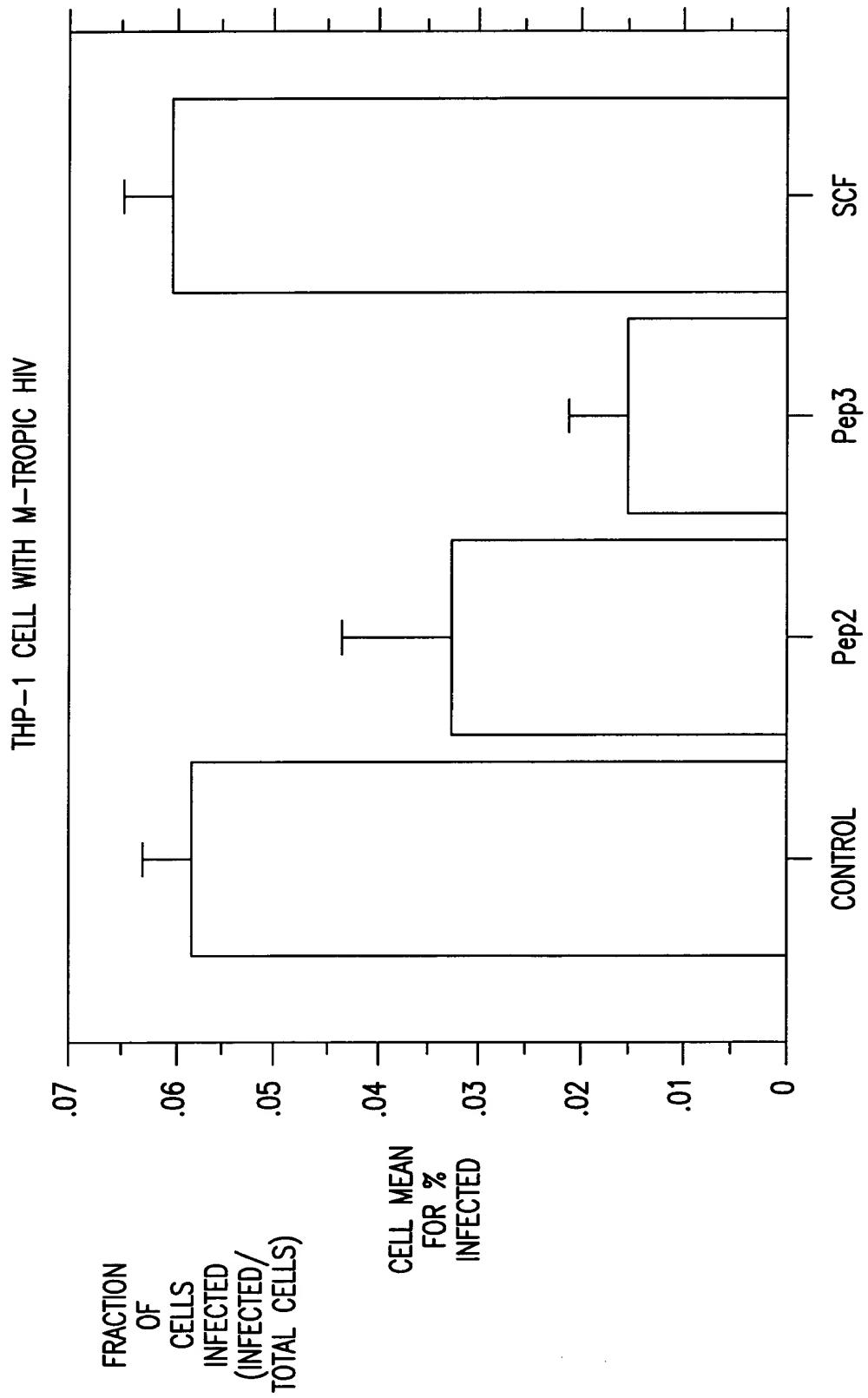


FIG. 11

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<u>Amino Acid</u>	<u>Codon</u>
Phe	UUU, UUC
Ser	UCU, UCC, UCA, UCG, AGU, AGC
Tyr	UAU, UAC
Cys	UGU, UGC
Leu	UUA, UUG, CUU, CUC, CUA, CUG
Trp	UGG
Pro	CCU, CCC, CCA, CCG
His	CAU, CAC
Arg	CGU, CGC, CGA, CGG, AGA, AGG
Gln	CAA, CAG
Ile	AUU, AUC, AUA
Thr	ACU, ACC, ACA, ACG
Asn	AAU, AAC
Lys	AAA, AAG
Met	AUG
Val	GUU, GUC, GUA, GUG
Ala	GCU, GCC, GCA, GCG
Asp	GAU, GAC
Gly	GGU, GGC, GGA, GGG
Glu	GAA, GAG

FIG. 12

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Original Residue	Exemplary Substitutions	Preferred Substitutions
Ala (A)	val; leu; ile	val
Arg (R)	lys; gln; asn	lys
Asn (N)	gln; his; lys; arg	gln
Asp (D)	glu	glu
Cys (C)	ser	ser
Gln (Q)	asn	asn
Glu (E)	asp	asp
Gly (G)	pro	pro
His (H)	asn; gln; lys; arg	arg
Ile (I)	leu; val; met; ala; phe norleucine	leu
Leu (L)	norleucine; ile; val; met; ala; phe	ile
Lys (K)	arg; gln; asn	arg
Met (M)	leu; phe; ile	leu
Phe (F)	leu; val; ile; ala	leu
Pro (P)	gly	gly
Ser (S)	thr	thr
Thr (T)	ser	ser
Trp (W)	tyr	tyr
Tyr (Y)	trp; phe; thr; ser	phe
Val (V)	ile; leu; met; phe; ala; norleucine	leu

FIG. 13

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PEPTIDE-3

LFL peptide 3(1-12)[MCP-1]: Residues 50-61 of mature hMCP-1  
E-I-C-A-D-P-K-Q-K-W-V-Q (SEQ. ID. NO.: 1)  
L amino acids

LFL peptide 3(3-12)[MCPI] Residues 52-61 of mature hMCP-1  
C-A-D-P-K-Q-K-W-V-Q (SEQ. ID. NO.: 7)  
L amino acids

LFL peptide 3(1-6)[MCP1]: Residues 50-55 of mature hMCP-1  
E-I-C-A-D-P (SEQ. ID. NO.: 8)  
L amino acids

LFL peptide 3(7-12)[MCP1]: Residues 56-61 of mature hMCP-1  
K-Q-K-W-V-Q (SEQ. ID. NO.: 9)  
L amino acids

LFL Leu<sub>4</sub>peptide3(1-12)[MCP-1]  
E-I-C-L-D-P-K-Q-K-W-V-Q (SEQ. ID. NO.: 10)  
L amino acids

LFL Ser<sub>1</sub>peptide3(1-12)[MCP-1]  
E-I-C-A-D-P-S-Q-K-W-V-Q (SEQ. ID. NO.: 11)  
L amino acids

LFL Ile<sub>11</sub>peptide3(1-12)[MCP-1]  
E-I-C-A-D-P-K-Q-K-W-I-Q (SEQ. ID. NO.: 13)  
L amino acids

LFL Leu<sub>4</sub>Ile<sub>11</sub>peptide3(1-12)[MCP-1]  
E-I-C-L-D-P-K-Q-K-W-I-Q (SEQ. ID. NO.: 14)  
L amino acids

CFL Cys<sub>0</sub>Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub>peptide3(1-12)[MCP-1]  
C-E-I-C-L-D-P-K-Q-K-W-I-Q-C (SEQ. ID. NO.: 106)  
L amino acids

LRD Leu<sub>4</sub>Ile<sub>11</sub> peptide 3(1-12)[MCP-1]  
q-i-w-k-q-k-p-d-l-c-i-e  
D amino acids

FIG. 14A

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CRD Cys<sub>0</sub>Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub>peptide 3(1-12)[MCP-1]

c-q-i-w-k-q-k-p-d-l-c-i-e-c

D amino acids

LFL Ser<sub>7</sub>Glu<sub>8</sub>Glu<sub>9</sub>peptide3(1-12)[MCP1]:Residues 50-61 of mature hMIP1 $\alpha$   
E-I-C-A-D-P-S-E-E-W-V-Q (SEQ. ID. NO.: 12)

L amino acids

LFL peptide3(10-12)[MCP-1]

W-V-Q

L amino acids

CFL Cys<sub>0</sub>Cys<sub>4</sub> peptide3(10-12)[MCP-1]

C-W-V-Q-C (SEQ. ID. NO.: 107)

L amino acids

LRD peptide3(10-12)[MCP-1]

q-v-w

D amino acids

LFL peptide3(7-9)[MCP-1]

K-Q-K

L amino acids

LRD peptide3(7-9)[MCP-1]

k-q-k

D amino acids

LFL peptide 3(7-9)[MIP1 $\alpha$ ](MIP1 $\alpha$  specific inhibitor)

S-E-E

L amino acids

LRD peptide3(7-9)[MIP1 $\alpha$ ] (MIP1 $\alpha$  specific inhibitor)

e-e-s

D amino acids

LFL peptide3(7-9)[IL-8](IL-8 specific inhibitor)

K-E-N

L amino acids

LRD peptide3(7-9)[IL-8](IL-8 specific inhibitor)

n-e-k

D amino acids

FIG. 14B

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LFL peptide3(7-9)[SDF-1 $\alpha$ ](SDF-1 $\alpha$  specific inhibitor)

K-L-K

L amino acids

LRD peptide3(7-9)[SDF1 $\alpha$ ] (SDF-1 $\alpha$  specific inhibitor)

k-l-k

D amino acids

LFL Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub> peptide3(3-12)[MCP-1]

L-D-P-K-Q-K-W-I-Q-C (SEQ. ID. NO.: 84)

L amino acids

CRD Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub> peptide3(3-12)[MCP-1]

c-q-i-w-k-q-k-p-d-l-c

D amino acids

<sup>3</sup>H-Ala CRD-Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub> peptide 3(3-12)[MCP-1](D-Ala attached to Asp residue of CRD-Leu<sub>4</sub>Ile<sub>11</sub>Cys<sub>13</sub> peptide 3(3-12)[MCP-1])

<sup>3</sup>H-L-Leu LRD Cys<sub>13</sub> peptide3(3-12)[MCP-1]

c-q-i-w-k-q-k-p-d-L-c

D and L amino acids

LFL SES

S-E-S

L amino acids

LFL KKK

K-K-K

L amino acids

LFL Cys<sub>4</sub> peptide3(10-12)[MCP-1]

W-V-Q-C (SEQ. ID. NO.: 85)

L amino acids

LRD Cys<sub>4</sub> peptide3(10-12)[MCP-1]

c-q-v-w

D amino acids

LFL Ile<sub>11</sub>Cys<sub>13</sub> peptide3(10-12)[MCP-1]

W-I-Q-C (SEQ. ID. NO.: 86)

L amino acids

FIG. 14C

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LRD Cys<sub>13</sub>Ile<sub>11</sub>peptide3(10-12)[MCP-1]

cqiw

D amino acids

LRD peptide3(7-12)[MCP-1]

q-v-w-k-q-k

D amino acids

CFL Cys<sub>0</sub>Cys<sub>13</sub>peptide3(7-12)[MCP-1]

C-K-Q-K-W-V-Q-C (SEQ. ID. NO.: 108)

L amino acids

CRD Cys<sub>0</sub>Cys<sub>13</sub>peptide3(7-12)[MCP-1]

c-q-v-w-k-q-k-c

D amino acids

LFL peptide3(10-12)[RANTES]

WVR

L amino acids

LRD peptide3(10-12)[RANTES]

rvw

D amino acids

LFL peptide3(10-12)[SDF-1]

W-I-Q

L amino acids

## Peptide 2

LFL peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

S-Y-R-R-I-T-S-S-K-C-P-K-E-A-V (SEQ. ID. NO.: 105)

L amino acids

CFL Cys<sub>0</sub>Cys<sub>16</sub>peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

C-S-Y-R-R-I-T-S-S-K-C-P-K-E-A-V-C (SEQ. ID. NO.: 109)

L amino acids

LRD peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

v-a-e-k-p-c-k-s-s-t-i-r-r-y-s

D amino acids

FIG. 14D

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**CRD Cys<sub>0</sub>Cys<sub>16</sub>peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1**  
**c-v-a-e-k-p-c-k-s-s-t-i-r-r-y-s-c**  
**D amino acids**

**LFL peptide 2(1-15)[SDF1]: Residues 26-40 of mature hSDF-1 $\beta$**   
**H-L-K-I-L-N-T-P-N-C-A-L-Q-I-V (SEQ. ID. NO.: 103)**  
**L amino acids**

**CFL Cys<sub>0</sub>Cys<sub>16</sub>peptide 2(1-15)[SDF1]: Residues 26-40 of mature hSDF-1 $\beta$**   
**C-H-L-K-I-L-N-T-P-N-C-A-L-Q-I-V-C (SEQ. ID. NO.: 110)**  
**L amino acids**

**LRD peptide 2(1-15)[SDF1]: Residues 26-40 of mature hSDF-1 $\beta$**   
**v-i-q-l-a-c-n-p-t-n-l-i-k-l-h**  
**D amino acids**

**CRD Cys<sub>0</sub>Cys<sub>16</sub>peptide 2(1-15)[SDF1]: Residues 26-40 of mature hSDF-1 $\beta$**   
**c-v-i-q-l-a-c-n-p-t-n-l-i-k-l-h-c**  
**D amino acids**

**LFL peptide 2(1-14)[MIP-1 $\alpha$ ]: Residues 28-41 of hMIP-1 $\alpha$**   
**D-Y-F-E-T-S-S-Q-C-S-K-P-G-V (SEQ. ID. NO.: 5)**  
**L amino acids**

**LRD peptide 2(1-14)[MIP1 $\alpha$ ]: Residues 28-41 of mature hMIP1 $\alpha$**   
**v-g-p-k-s-c-q-s-s-t-e-f-y-d**  
**D amino acids**

**LFL peptide 2(1-16)[IL8]: Residues 27-42 of mature hIL8**  
**E-L-R-V-I-E-S-G-P-H-C-A-N-T-E-I (SEQ. ID. NO.: 6)**  
**L amino acids**

**LFL Peptide 2(1-10)[MCP-1]: Residues 28-37 of hMCP-1**  
**S-Y-R-R-I-T-S-S-K-C (SEQ. ID. NO.: 87)**  
**L amino acids**

**LFL peptide 2(10-15)[MCP-1]: Residues 37-42 of hMCP-1**  
**C-P-K-E-A-V (SEQ. ID. NO.: 88)**  
**L amino acids**

**LFL peptide 2(1-5)[MCP-1]: Residues 28-32 of hMCP-1**  
**S-Y-R-R-I (SEQ. ID. NO.: 89)**  
**L amino acids**

**FIG. 14E**

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LFL peptide 2(6-10)[MCP-1]: Residues 33-37 of hMCP-1

T-S-S-K-C (SEQ. ID. NO.: 90)

L amino acids

LFL peptide 2(1-9)[MIP-1 $\alpha$ ]: Residues 28-36 of hMIP-1 $\alpha$

D-Y-F-E-T-S-S-Q-C (SEQ. ID. NO.: 91)

L amino acids

LFL peptide 2(9-14)[MIP-1 $\alpha$ ]: Residues 36-41 of hMIP-1 $\alpha$

C-S-K-P-G-V (SEQ. ID. NO.: 92)

L amino acid

LFL Cys<sub>0</sub>Ser<sub>10</sub>Cys<sub>16</sub>peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

C-S-Y-R-R-I-T-S-S-K-S-P-K-E-A-V-C (SEQ. ID. NO.: 93)

L amino acids

CFL Cys<sub>0</sub>Ser<sub>10</sub>Cys<sub>16</sub>peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

C-S-Y-R-R-I-T-S-S-K-S-P-K-E-A-V-C (SEQ. ID. NO.: 111)

L amino acids

LRD Cys<sub>0</sub>Ser<sub>10</sub>Cys<sub>16</sub>peptide 2(1-15)[ MCP-1]: Residues 28-42 of hMCP-1

c-v-a-e-k-p-s-k-s-s-t-i-r-r-y-s-c

D amino acids

CRD Cys<sub>0</sub>Ser<sub>10</sub>Cys<sub>16</sub>peptide 2(1-15)[MCP-1]: Residues 28-42 of hMCP-1

c-v-a-e-k-p-s-k-s-s-t-i-r-r-y-s-c

D amino acids

FIG. 14F

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SEQUENCE	DARC BINDING	MCP-1	MIP-1 $\alpha$	SDF-1 $\alpha$
SYRRITSSKCPKEAV	350nM	ns	ns	ns
VAEKPCKSSTIRRYS	18 $\mu$ M	ns	ns	ns
SYRRITSK	22 $\mu$ M	ns	ns	ns
SYRRI	>100 $\mu$ M	ns	ns	ns
TSSKC	>100 $\mu$ M	ns	ns	ns
CPKEAV	>100 $\mu$ M	ns	ns	ns
HLKILNTPNCALQIV	19 $\mu$ M	10 $\mu$ M	40 $\mu$ M	7 $\mu$ M
DYFETSSQCSKPGV	>100 $\mu$ M	ns	ns	ns
VGPKSCQSSTFYD	>100 $\mu$ M	ns	ns	ns
DYFETSSQC	>100 $\mu$ M	ns	ns	ns
CSKPGV	>100 $\mu$ M	ns	ns	ns

FIG 15

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SEQUENCE	MOL WT.	DUFFY BINDING BD-50	MCP-1 ED-50	MIP-1 $\alpha$ ED-50	RANTES ED-50	SDF-1 $\alpha$ ED-50	IL-8 ED-50	OTHER DATA
AQPDAINAPVTCC	1302	90 $\mu$ M	ns	ns	—	ns	ns	ns
SYRRITSSKCPKEAV	1725	100 $\mu$ M	ns	ns	—	ns	—	—
VAEKPKCKSSTIRYS	1725	18 $\mu$ M	ns	ns	—	ns	—	—
HLKILNTPNCALQIV	1677.3	19 $\mu$ M	10 $\mu$ M	40 $\mu$ M	—	—	7 $\mu$ M	—
DYFETSSQCSKPGV	1549	>100 $\mu$ M	ns	ns	—	ns	—	—
VQPKSQSSTEFYD	1549	>100 $\mu$ M	ns	ns	—	ns	—	—
SYRRITSSKC	1097.4	22 $\mu$ M	ns	ns	—	ns	—	—
CPKEAV	645.8	>100 $\mu$ M	ns	ns	—	ns	—	—
SYRRI	693.9	>100 $\mu$ M	ns	ns	—	ns	—	—
TSSKC	525.7	>100 $\mu$ M	ns	ns	—	ns	—	—
DYFETSSQC	1079.2	>100 $\mu$ M	ns	ns	—	ns	—	—
CSKPGV	589.8	>100 $\mu$ M	ns	ns	—	ns	—	—

FIG. 16A

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SICADPKQKNVQ	1445	6µM	8µM	7.5µM	-	13.5µM	10µM	
CADPKQKNVQ	1202	-	8µM	6.5µM	-	9µM	8.5µM	
CQWPKQKDQ	1305	3µM	100nM	-	-	-	-	
CQWPKQKDQ	1305	40µM	30nM	-	-	-	-	
BICADP	647	-	25µM	20µM	-	18.5µM	16µM	
KQKWNQ	816	15µM	7µM	5µM	-	5.5µM	5µM	
BICLDPKQKWQ	1487	-	8µM	7µM	-	2.5µM	3µM	
EICADPSQKWKQ	1404	25µM	7µM	5.5µM	-	4µM	3µM	
EICADPKQKWQ	1459	-	5.5µM	3.5µM	-	7µM	2µM	
EICLDPKQKWQ	1501	90µM	2µM	2µM	-	4µM	3.5µM	
WQ	431.5	1 µM	8 µM	7.5 µM	1.5 µM	2.25 µM	1 µM	
KQK	464.5	50µM	7µM	>100µM	>100µM	>100µM	>100µM	
SEE	399.4	>100µM	>100µM	-	>100µM	>100µM	>100µM	
KEN	425.4	>100µM	>100µM	>100µM	>100µM	>100µM	>100µM	-

FIG. 16B

TITLE: COMPOUNDS AND METHODS TO INHIBIT OR AUGMENT AN INFLAMMATORY RESPONSE  
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	516.6	>100µM	>100µM	>100µM	>100µM	-	>100µM
CQIWKQKPDL	1359	>100µM	1µM	-	-	350nM	10nM
CQIWKQKPDLAC	1448	-	100nM	-	-	-	NOTE 2
CQIWKQKPDL	1472.2	-	10nM	-	-	-	-
SES	357.3	>100µM	>100µM	-	-	-	-
KKK	609.8	>100µM	-	-	-	-	-

NOTE1: IN VIVO EFFECT ABOLISHES MACROPHAGES IN AN IN VIVO RATE INTRADERMAL STUDY INDUCED BY 500 ng MCP-1, 300 g IV, AND 10mg SQ 30 MINUTES PRIOR TO MCP-1, D-ALA ("a") IS ATTACHED TO D-ASP ("d").  
NOTE 2: IN SAME STUDY AS NOTE 1 ABOVE, NO EFFECT ON MACROPHAGES SEEN

FIG. 16C

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STUDY DESIGN TABLE

GROUP	ANIMAL#	N	RX	RX DOSE/ROUTE T=30 MIN	DERMAL AGONIST DOSE (ng IN 50 μl) T=0	HOUR OF SACRIFICE
1	1,2,3	3	PBS	200 μl:LV 200 μl:SQ BACK	PBS LPS MCP-1 MCP-1	0 50 100 500
2	4,5,6	3	NR58-3.14.3	3 ug:LV 100 ug:SQ BACK	PBS LPS MCP-1 MCP-1	0 50 100 500
3	7,8,9	3	NR58-3.14.3	30 ug:LV 1 mg:SQ BACK	PBS LPS MCP-1 MCP-1	0 50 100 500
4	10,11,12	3	NR58-3.14.3	300 ug:LV 10 mg:SQ BACK	PBS LPS MCP-1 MCP-1	0 50 100 500

FIG. 17